



1 **A GOLF CLUB SHAFT FORMED FROM METAL-CONTAINING PREPREG**
2 **AND NON-METAL FIBER PREPREG AND METHOD OF MAKING THE SAME**

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4 **ABSTRACT OF THE DISCLOSURE**

5 Disclosed is a golf club shaft of sheet-wound construction that
6 approximates the characteristics of a steel shaft. The golf club shaft is formed
7 using metal-containing prepreg and non-metal fiber prepreg in order to provide a
8 sheet-wound club having an elasticity index (EI) value of $3.0 \sim 4.5 \text{ kgf} \cdot \text{m}^2$, a
9 mass 80~130g, and a center of mass that is 45~51% of the overall length of the
10 shaft. The metal-containing prepreg is wrapped around a mandrel near the tip
11 of the shaft in order to position the center of mass where desired. The non-metal
12 fiber prepreg is wrapped around the mandrel to provide the desired EI value and
13 overall mass. Additional layers of metal-containing prepreg may be wrapped
14 beyond the metal-containing prepreg wrapped near the tip in order to vary the
15 characteristics of the golf club shaft. The golf club shaft is preferably formed on a
16 mandrel that includes an annular recess at its tip in order to accommodate the
17 metal-containing prepreg that is wrapped near the tip.